**Table 1- DPS L4 Changes**

| Paragraph_id | requirement_key | release | req_type | req_status | verification_method | verification_status | text | clarification |
|---|---|---|---|---|---|---|---|---|
| S-DPS-20040 | 4361 | A | evolvable | approved | demo | unverified | The PRONG CI design and implementation shall have the flexibility to ~~accomodate~~ accommodate Processing expansion up to a factor of 3 in its capacity with no changes to the design, and up to a factor of 10 without major changes to its design. Such expansion in capacity or capability shall be transparent to existing algorithms or product specifications. | |
| S-DPS-21000 | 10663 | A | interface | approved | test | unverified | The PRONG CI shall initiate execution of a PGE when the following is true:<br>a. When all input data required to execute the PGE is available on local Data Processing subsystem storage resources.<br>b. When the computer hardware resources are available to support execution of a PGE based on the computer hardware resource information associated with the Data Processing Request.<br>c. When the ~~Priority Information associated with the Data Processing Request has been fulfilled~~ DPR's priority places it ahead of other DPRs when there exists a resource conflict.<br>d. When the maximum disk space requirements defined for the PGE are available to support the successful execution of the PGE<br>e. When the maximum memory resources defined for the PGE are available to support the successful execution of the PGE<br>f. When the CPU resources defined for the PGE are available to support the successful execution of the PGE | MSS not used to meet this requirement; Resource Management polls on availability of Data Processing resources; other info provided via COTS GUIs |
| S-DPS-21124 | 8663 | B1 | interface | approved | test | unverified | The PRONG CI shall receive advertisements from the IOS for QA purposes. | |
| S-DPS-21126 | 8664 | B1 | interface | approved | test | unverified | The PRONG CI shall send advertisement subscriptions to the IOS for QA purposes. | |
| S-DPS-24000 | 10064 | B1 | functional | approved | test | unverified | The PRONG CI, as a function of QA, shall notify the operations staff when the size of a granule input to a Data Processing Request is not within a pre-assigned range. | |
| S-DPS-24015 | 10068 | B1 | functional | approved | test | unverified | The PRONG CI, as a function of QA, shall notify the operations staff when the size of a granule output by Data Processing Request is not within a pre-assigned range. | |
| S-DPS-24020 | 11560 | B1 | functional | approved | test | unverified | The PRONG CI, as a function of QA, shall be capable of checking core metadata values of output data granules against a predefined list of values. | |
| S-DPS-24030 | 10072 | B1 | functional | approved | test | unverified | The PRONG CI, as a function of QA, shall be capable of checking core metadata values of output data granules against a predefined range of | |

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|---|---|---|---|---|---|---|---|---|
| | | | | | | | values. | |

## Table 1- DPS L4 Changes (Cont'd)

| Paragraph_id | requirement_key | release | req_type | req_status | verification_method | verification_status | text | clarification |
|---|---|---|---|---|---|---|---|---|
| S-DPS-24045 | 10075 | B1 | functional | approved | test | unverified | The PRONG CI, as a function of QA, shall be capable of checking product specific metadata values of output data granules against a predefined list of values. | |
| S-DPS-24055 | 10077 | B1 | functional | approved | test | unverified | The PRONG CI, as a function of QA, shall be capable of checking product specific metadata values of output data granules against a predefined range of values. | |
| S-DPS-30600 | 11681 | B0 | functional | approved | test | unverified | The PRONG CI shall process the EOS-AM spacecraft ancillary data to assess the quality of onboard attitude data contained in the EOS-AM spacecraft ancillary data to detect and note in metadata the ~~folloowing~~ following conditions:<br>a) missing data<br>b) erroneous data (i.e. invalid Euler angle, invalid Euler angle rate). | |
| S-DPS-41190 | 11694 | B0 | functional | approved | test | unverified | The AITTL CI SSAP GUI used for adding an Science Software Archive Package to the Data Server shall have the capability of accepting its inputs from a file generated by the operations staff. | |
| S-DPS-60490 | 4698 | A | ~~RMA~~ functional | approved | demo | unverified | The SPRHW CI shall be capable of supporting system development without impact to normal operations. | |
| S-DPS-60500 | 4699 | A | ~~RMA~~ functional | approved | demo | unverified | The SPRHW CI shall be capable of supporting science software test without impact to normal operations. | |
| S-DPS-60525 | 5206 | A | RMA | approved | demo | unverified | SPRHW CI functions shall have an operational availability of .96 as a minimum and Mean Down Time of < 4 hours during times of staffed operation. | |
| S-DPS-60535 | 5216 | A | RMA | approved | demo | unverified | The maximum down time of the SPRHW CI shall not exceed twice the required MDT in 99 percent of failure occurrences. | |
| S-DPS-70080 | 5207 | A | RMA | approved | demo | unverified | AITHW CI functions shall have an operational availability of .96 as a minimum and Mean Down Time of < 4 hours during times of staffed operation. | |
| S-DPS-70085 | 5208 | A | RMA | approved | demo | unverified | The AITHW CI elements and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements. | |
| S-DPS-70090 | 5217 | A | RMA | approved | demo | unverified | The maximum down time of the AITHW CI shall not exceed twice the | |

| | | | | | | | | |
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| | | | | | | | required MDT in 99 percent of failure occurrences. | |

**Table 1- DPS L4 Changes (Cont'd)**

| Paragraph_id | requirement_key | release | req_type | req_status | verification_method | verification_status | text | clarification |
|---|---|---|---|---|---|---|---|---|
| S-DPS-70130 | 4839 | IR1 | functional | agreed | test/analysis | unverified | The AITHW CI POSIX.2 compliant platform ~~ishall~~ shall have the following POSIX.2 User Portability Utilities installed at a ~~minmum~~ minimum: man, vi. | |
| S-DPS-80020 | 5209 | A | RMA | approved | demo | unverified | The AQAHW CI elements and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements. | |
| S-DPS-80025 | 5218 | A | RMA | approved | demo | unverified | The maximum down time of the AQAHW CI shall not exceed twice the required MDT in 99 percent of failure occurrences. | |